

Observations of Comets and Minor Planets made at the Observatory of Marseilles.

(Communicated by M. Stéphan through Mr. Hind.)

Comet II. 1873 (Tempel).

1873	Mean Time Marseilles.			R.A.	Log. fac. par.	N.P.D.	Log. fac. par.	Comp. Star.	Obj.
	h	m	s	h m s		° ' "			
July 29	13	57	39	1 14 46.05	-9.463	97 32 19.1	-0.8300	a	B
30	14	13	32	1 16 48.28	-9.422	97 43 9.5	-0.8293	a	S
31	15	3	32	1 18 50.66	-9.252	97 54 22.4	-0.8369	b	C
Aug. 30	13	55	31	1 52 55.99	-9.187	104 32 57.9	-0.8721	c	B
Sept. 18	12	28	51	1 49 13.36	-9.237	108 30 38.3	-0.8869	d	B
19	11	42	53	1 48 36.01	-9.387	108 40 1.2	-0.8776	d	B
24	13	44	51	1 44 54.49	+8.498	109 23 48.6	-0.8987	e	C

Comet III. 1873 (Borrelly).

Aug. 20	15	43	40	7 27 1.57	-9.744	51 15 46.5	-0.6509	f	B
21	14	54	14	7 28 20.02	-9.736	52 13 26.5	-0.6299	g	S
26	15	41	49	7 35 33.60	-9.708	57 45 29.2	-0.6814	h	B
30	14	58	43	7 41 56.44	-9.689	62 51 19.6	-0.7287	i	B
Sept. 1	14	40	51	7 45 5.65	-9.677	65 41 5.7	-0.7277	k	B
16	16	23	32	8 21 31.77	-9.594	93 48 32.2	-0.7976	l	B
18	16	29	45	8 27 51.59	-9.586	98 16 16.0	-0.8118	m	B

Comet IV. 1873 (Henry).

Aug. 24	12	48	24	7 33 24.77	-9.925	30 44 51.9	-0.3712	n	S
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Comet V. 1873 (Brorsen).

Sept. 20	15	19	2	9 10 26.31	...	85 40 49.2	...	o	S
24	16	59	6	9 38 1.99	...	84 32 51.0	...	p	C

Comet VI. 1873 (Faye).

Sept. 3	16	9	3	7 0 48.14	...	74 12 35.2	...	q	S
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The observations of Comets V. and VI. are corrected for the effect of parallax.

Nov. 1873.

and Minor Planets.

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Mean Positions of the Comparison-Stars for 1873.0.

		Name of Star.	Mag.	Mean R.A. h m s	Mean N.P.D. ° ' "	Authority.
Comet II. 1873	<i>a</i>	W. B. (1) I. 212	9	1 14 37.70	97 37 27.6	Weisse's Bessel.
"	<i>b</i>	W. B. (1) I. 271	7	1 17 57.38	97 34 42.7	"
"	<i>c</i>	W. B. (1) I. 930	7	1 53 21.56	104 29 27.1	"
"	<i>d</i>	Lalande 3631	8	1 51 11.75	108 17 39.0	Lalande.
"	<i>e</i>	Lalande 3339	9	1 42 45.89	109 0 53.9	"
Comet III. 1873	<i>f</i>	W. B. (2) VII. 887	6	7 31 41.82	51 22 1.6	Weis. Bes.
"	<i>g</i>	W. B. (2) VII. 684	8	7 24 55.79	52 24 14.6	"
"	<i>h</i>	W. B. (2) VII. 996	9	7 34 48.68	57 41 26.6	"
"	<i>i</i>	B. A. C. 2617	5	7 45 43.46	62 54 25.9	B. A. C.
"	<i>k</i>	W. B. (2) VII. 1206	7	7 43 1.16	65 31 17.2	Weis. Bes.
"	<i>l</i>	B. A. C. 2831	6	8 20 6.41	93 34 16.2	B. A. C.
"	<i>m</i>	W. B. (1) VIII. 804	7	8 31 39.49	98 26 16.7	Weis. Bes.
Comet IV. 1873	<i>n</i>	Oeltz. Arg. 8087	8-9	7 29 37.07	30 37 0.4	Oeltz. Arg.
Comet V. 1873	<i>o</i>	W. B. (1) IX. 102	8	9 6 46.52	85 39 15.7	Weis. Bes.
"	<i>p</i>	Lalande 19072	9	9 36 13.42	84 23 44.0	Lalande.
Comet VI. 1873	<i>q</i>	W. B. (2) VII. 11	9	7 3 4.46	74 11 18.2	Weis. Bes.

*Observations of Minor Planets (133) and Sophrosyne (134).**(133) Watson.*

		Mean Time Marseilles.	R.A.	Log. fac. par.	N.P.D.	Log. fac. par.	Comp. Star.	Obs.
		h m s	h m s		° ' "			
Aug. 19		14 10 39	23 0 38.20	+9.079	92 43 30.6	-0.8059	<i>a</i>	S
20		12 36 48	22 59 56.30	-8.682	92 45 30.7	-0.8069	<i>a</i>	S
21		13 29 15	22 59 6.67	+8.775	92 47 41.7	-0.8073	<i>b</i>	S
28		9 46 2	22 53 45.25	-9.445	93 5 0.7	-0.8032	<i>c</i>	B
29		8 44 34	22 52 58.83	-9.547	93 7 34.1	-0.7995	<i>c</i>	B
30		9 13 55	22 52 9.12	-9.491	93 10 28.5	-0.8015	<i>c</i>	B
Sept. 1		9 14 31	22 50 31.17	-9.472	93 16 11.3	-0.8039	<i>c</i>	B
19		9 11 46	22 36 35.84	-9.220	94 9 32.2	-0.8147	<i>d</i>	B
24		9 36 26	22 33 19.80	-8.898	94 23 58.4	-0.8182	<i>e</i>	C
25		9 56 6	22 32 42.64	-8.619	94 26 45.4	-0.8190	<i>e</i>	C
27		9 46 4	22 31 33.30	-8.536	94 31 32.9	-0.8194	<i>e</i>	C
28		9 56 8	22 30 59.36	...	94 33 54.1	-0.8199	<i>e</i>	C
29		10 7 10	22 30 26.73	+8.358	94 36 18.0	-0.8201	<i>e</i>	C

Sophrosyne (134) (Luther).

		Mean Time Marseilles.			R.A.			Log. fac. par.	N.P.D.			Log. fac. par.	Comp. Star.	Obs.
		h	m	s	h	m	s		°	'	"			
Oct.	4	11	49	42	0	1	1'77	+8'918	82	14	29'1	-0'7147	f	S
	10	10	54	30	23	55	13'62	+8'524	82	23	1'7	-0'7152	f	S
	12	11	32	27	23	53	22'65	+9'091	82	26	1'4	-0'7186	f	S

Mean Positions of the Comparison-Stars for 1873'0.

		Name of Star.			Mag.	Mean R.A.			Mean N.P.D.			Authority.
						h	m	s	°	'	"	
(133)	a	W. B. (1) XXII.	1237		9	22	59	26'99	92	46	22'7	Weis. Bes.
	b	W. B. (1) XXIII.	3		8-9	23	2	31'10	92	56	36'7	"
	c	W. B. (1) XXII.	1090		9	22	53	16'67	93	7	15'8	"
	d	W. B. (1) XXII.	731		8-9	22	35	32'03	94	8	11'8	"
	e	Lalande	46228		9	22	31	45'20	94	22	52'9	Lalande.
Sophrosyne	f	B. A. C.	8354		6	23	56	0'50	82	13	9'6	B. A. C.

Comparison of the R.A. and N.P.D. of Standard Stars observed at the Radcliffe Observatory, Oxford, in the year 1870, with the R.A. and N.P.D. founded on the Tabulæ Reductionum. By Prof. Dr. F. Ph. Wolfers.

(Communicated by the Radcliffe Observer.)

Name of Star.	No. of Obs.	R. A. 1870.					No. of Obs.	Decl. 1870.				
		Oxford.		W.	O-W.			Oxford.		W.	O-W.	
		h	m	s	°	s		°	'	"	"	"
α Androm.	13	0	1	40'28	40'30	-0'02	17	+28	22	22'47	22'43	+0'04
γ Pegasi	1	0	6	32'68	32'69	-0'01	5	+14	27	39'25	38'91	+0'34
α Cassiop.	8	0	33	8'53	8'65	-0'12	15	+55	49	25'56	26'61	-1'05
α Arietis	4	1	59	50'99	50'99	0'00	5	+22	50	47'13	47'64	-0'51
γ Ceti	2	2	36	33'97	34'04	-0'07	1	+2	41	11'31	11'03	+0'28
α Ceti	1	2	55	29'06	29'15	-0'09	1	+3	34	43'83	40'66	+3'17
[δ Arietis]	2	3	4	11'94	12'02	-0'08	2	+19	13	59'86	59'43	+0'43
α Persei	9	3	15	3'13	3'27	-0'14	18	+49	23	45'05	45'16	-0'11
α Tauri	11	4	28	27'73	27'82	-0'09	18	+16	14	44'03	44'91	-0'88
α Aurigæ	8	5	7	5'25	5'40	-0'15	12	+45	51	43'81	45'40	-1'59